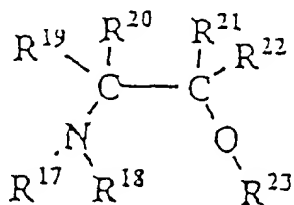
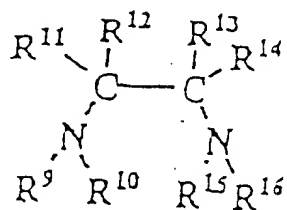


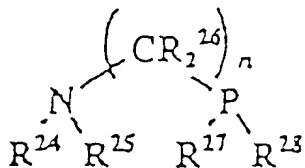
Amendments to the Claims

1-12. (Cancelled)

13. (Currently amended) An optically active catalyst composed of a transition metal catalyst and an optically active amine derivative represented by any one of the following ~~formulas;~~
formulas:



or



(~~wherein~~ wherein R^9, R^{10}, R^{15} and R^{16} are independently hydrogen, a

saturated or unsaturated hydrocarbon group, urethane group or sulfonyl group; R^{11} , R^{12} , R^{13} and R^{14} are the same or different so that the carbon bonded with these substituent groups might occupy the asymmetric center and independently represent hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; any one of R^{11} and R^{12} and any one of R^{13} and R^{14} are bonded together to form a ring;

at least one of R^{17} and R^{18} is hydrogen atom, and the remaining one is hydrogen atom, a saturated or unsaturated hydrocarbon group, urethane group or sulfonyl group; R^{19} , R^{20} , R^{21} and R^{22} are the same or different so that the carbon bonded with these substituent groups might occupy the asymmetric center and independently represent hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; R^{23} represents hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; furthermore, any one of R^{19} and R^{20} and any one of R^{21} and R^{22} may satisfactorily be bonded together to form a ring or any one of R^{17} and R^{18} and any one of R^{20} and R^{21} may satisfactorily be bonded together to form a ring;

R^{24} and R^{25} are independently hydrogen atom, a saturated or unsaturated hydrocarbon group, urethane group, sulfonyl group or acyl group; $(CR_2^{26})_n$ are the same or different so that the carbon bonded with these substituent groups might occupy the asymmetric center; R^{26} represents hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; R^{27} and R^{28} independently represent hydrogen atom, ~~and~~ or a saturated or unsaturated hydrocarbon group.

14. (Currently amended) A catalyst according to claim 13, wherein the transition metal ~~complex~~ catalyst is a complex of metals of group VIII as represented by the following general formula; formula:

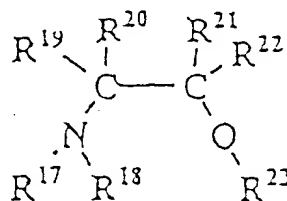
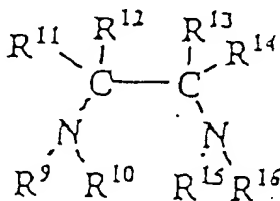


~~(wherein~~ wherein M represents transition metals of group VIII, ~~such as selected from the group consisting of~~ iron, cobalt, nickel, ruthenium, rhodium, iridium, osmium, palladium and platinum; X

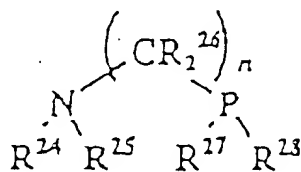
represents hydrogen, halogen atom, carboxyl group, hydroxy group and or alkoxy group and the like;

L represents neutral ligands ~~such as~~ selected from the group consisting of aromatic compounds and olefin compounds; and m and n represent an integer) integer.

15. (Currently amended) An optically active catalyst composed of a transition metal catalyst and an optically active amine derivative represented by any one of the following formulas; formulas:



or



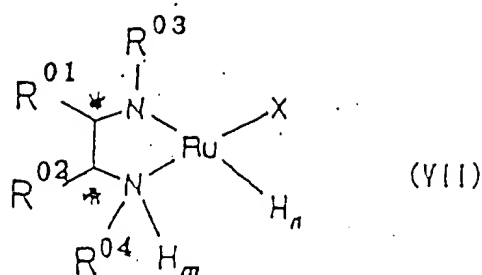
~~(wherein~~ wherein R^9 , R^{10} , R^{15} and R^{16} are independently hydrogen, a saturated or unsaturated hydrocarbon group, urethane group or sulfonyl group; R^{11} , R^{12} , R^{13} and R^{14} are the same or different so that the carbon bonded with these substituent groups might occupy the asymmetric center and independently represent hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; any one of R^{11} and R^{12} and any one of R^{13} and R^{14} are bonded together to form a ring;

at least one of R^{17} and R^{18} is hydrogen atom, and the remaining one is hydrogen atom, a saturated or unsaturated hydrocarbon group, urethane group or sulfonyl group; R^{19} , R^{20} , R^{21} and R^{22} are the same or different so that the carbon bonded with these substituent groups might occupy the asymmetric center and independently represent hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; R^{23} represents hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; furthermore, any one of R^{19} and R^{20} and any one of R^{21} and R^{22} may ~~satisfactorily~~ be bonded together to form a ring or any one of R^{17} and R^{18} and any one of R^{20} and R^{21} may ~~satisfactorily~~ be bonded together to form a ring;

R^{24} and R^{25} are independently hydrogen atom, a saturated or unsaturated hydrocarbon group, urethane group, sulfonyl group or acyl group; $(CR_2^{26})_n$ are the same or different so that the carbon bonded with these substituent groups might occupy the asymmetric center; R^{26} represents hydrogen atom, an aromatic group, a saturated or unsaturated hydrocarbon group or cyclic hydrocarbon group; furthermore, R^{27} and R^{28} independently represent hydrogen atom, ~~and or~~ or a saturated or unsaturated hydrocarbon group.

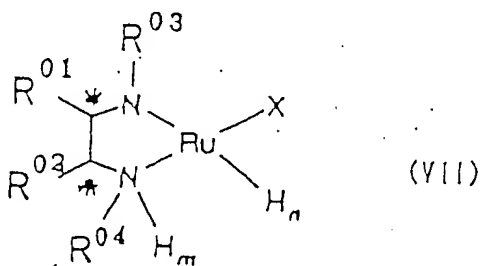
16. (Currently amended) A catalyst according to claim 15, wherein the transition metal ~~complex~~ catalyst is a complex of metals of group VIII.

17. (Currently amended) An optically active catalyst according to claim 16, wherein the transition metal catalyst is an optically active ruthenium-diamine complex represented by the following general formula ~~(VI)~~; (VII):



(wherein wherein * represents an asymmetric carbon atom; R^{01} and R^{02} and R^{02} are the same or different, independently representing alkyl group, or phenyl group or cycloalkyl group which may or may not have be substituted with an alkyl group; or R^{01} and R^{02} together form an alicyclic ring unsubstituted or substituted with an alkyl group; R^{03} represents methanesulfonyl group, trifluoromethanesulfonyl group, naphthylsulfonyl group, camphor sulfonyl group, or benzenesulfonyl group which may or may not be substituted with an alkyl group, an alkoxyl group or halogen atom, or benzoyl group which may or may not be substituted with alkoxycarbonyl group or alkyl group; R^{04} represents hydrogen atom or alkyl group; X represents an aromatic compound which may or may not be substituted with an alkyl group; and m and n together represent 0 or ± 1).

18. (Currently amended) An optically active ruthenium-diamine complex, represented by the following general formula (VII); VII:



(~~wherein~~ wherein R^6 represents an aromatic monocyclic or polycyclic hydrocarbon group, unsubstituted or substituted or a hetero monocyclic or polycyclic group containing hetero atoms, or ferrocenyl group; R^7 represents hydrogen atom, a saturated or unsaturated hydrocarbon group, or a functional group containing hetero atoms; or R^6 and R^7 may be bonded together to form a saturated or unsaturated alicyclic group ~~giving~~ having a cyclic ketone and the alicyclic group may or may not be substituted;

R^8 and R^9 furthermore independently represent a saturated or unsaturated hydrocarbon group which may or may not have a substituent, or R^7 and R^9 may be bonded together to form a saturated or unsaturated alicyclic group which may or may not have a substituent; and n is 1 or 2)